

MARSHALL STAR

Serving the Marshall Space Flight Center Community

April 14, 2005



Space Shuttle Discovery sits atop the launch pad at Kennedy Space Center.

Shuttle arrives at launch pad

From Kennedy Space Center release

The Space Shuttle Discovery is at the launch pad. Following more than two years of safety modifications and vehicle upgrades, Discovery arrived at Launch Pad 39B at NASA's Kennedy Space Center, Fla., around 12:30 a.m. EDT April 7.

"This is a big milestone," said William Readdy, NASA associate administrator for Space Operations, "and what a welcome sight to see Discovery at the pad, especially knowing the work we're doing to make it a stronger vehicle. But we're not finished yet. There are still some important milestones we're working toward before we're ready to fly," he added.

Launch of Discovery for its Return to Flight mission, designated STS-114, is targeted for May 15, with a launch window that extends until June 3. During their 12day mission, Commander Eileen Collins and

See Discovery on page 6

Leadership training to reinforce culture change

Marshall leaders and employees are instrumental in supporting NASA's culture change effort. This effort will be ongoing and will take many forms, including leadership evaluations and assessments, leadership training, and various change activities. On April 21, Marshall Center Deputy Director Charles Chitwood will meet with Center managers and supervisors in Morris Auditorium at 10:30 a.m. to discuss NASA's ongoing organizational and safety culture enhancement activities.

Behavioral Science Technology, Inc.,

(BST) a private company with specific expertise in helping organizations achieve safety excellence, will also attend the meeting and provide employees with an overview of the culture change process and how BST is supporting NASA's efforts. NASA hired BST on a three-year contract to help the Agency improve its communications and decision-making as it relates to mission safety.

The Agency undertook this effort following the loss of Space Shuttle Columbia. In its report, the Columbia Accident Investigation Board found that NASA's organizational

culture and structure, as well as mechanical problems, contributed to the Columbia accident. As a result, NASA began to transform its organizational and safety culture.

BST's first approach is to train managers to embrace a new safety culture. Activities supporting this approach include identifying leadership behaviors that are critical to successful outcomes, and increasing those desired behaviors through coaching and mentoring activities. Employees have a critical role in the process by providing valu-

See BST on page 2

New executive interns support Marshall management



Photo by David Higginbotham/Marshall Center

Kimberly Robinson, second from left, and Renee Higgins, second from right, hand over the reins of Marshall Center executive interns to Vann Jones, left, and George Xenofos.

By Patricia Dedrick Lloyd

Two new executive interns have joined the Marshall Center's senior administrative staff for the next year, replacing outgoing interns Kimberly Robinson and Renee Higgins.

In their new roles, interns George Xenofos and Vann Jones will support Center Director David King, Deputy Director Charles Chitwood and Associate Director Robin Henderson,

Robinson, who interned with King, and Renee Higgins, who worked with Chitwood and former deputy Rex Geveden, are moving to other positions. The executive intern positions, developmental assignments for future leaders at the Center, were advertised in January through the NASA jobs Web site.

King, a former Kennedy Space Center executive intern, said the position is a "wonderful way to gain a much larger perspective on how the Center and the Agency works. It also develops leadership

and management skills that add to the intern's tool belt."

The interns are beneficial to the Center's executive staff because they bring a different perspective to the table, King said. "Having someone in this position to do research, etc., allows me to spend more time being strategic."

Chitwood agreed, adding that the position provides significant insight into Center-wide issues and ways to resolve them.

It also gives insight into the on-going management of the Agency, management of Agency issues, and development of Center and Agency-wide contacts, said Chitwood.

Xenofos began his Marshall Center career in 1997. He worked as a lead subsystem engineer for both the RS-83 and RS-84 engine projects for the hot gas system and engine hardware. Prior to his intern position, he worked as an engine systems engineer for Project Constellation's Propulsion and Fluids Integrated Discipline Team and technical assistant to the NASA Engineering and Safety Center propulsion discipline manger.

Jones has extensive experience in business management and federal acquisitions at the Marshall Center and Johnson Space Center. He provided key support as a member of the Space Shuttle Columbia recovery operations team based in Fort Worth in 2003. He is also a member of the Marshall Speaker's Bureau.

Robinson is joining the Space Transportation Program/Projects Office. Prior to her executive internship, she was a project manager in the Microgravity Projects Office, providing leadership of multiple materials science and biotechnology flight investigations.

Higgins is joining the Office of Strategic Communications. She previously worked in the area of employee and organization development. Her experience includes designing and delivering developmental programs, providing organization development consultation, and participating in special studies and research.

The writer, an ASRI employee, is the Marshall Star editor.

BST

Continued from page 1 able feedback on effective and ineffective leadership behaviors they've observed.

A Safety Climate and Culture Survey was administered to NASA centers in February 2004, to gauge team members' opinions of their work environment.

The results of the survey indicated that we are strong in many areas, including teamwork, work group relations, approaching co-workers about safety concerns and reporting incidents or deviations that affect safety. The survey also identified other important issues that need to be addressed, including communicating with employees more effectively.

BST used the survey results as one resource in developing a plan of action for the Agency. Recommendations provided in the plan were first implemented at Glenn Research Center, Stennis Space Center and the Engineering and Mission Operations Directorates of Johnson Space Center. After six months of intensive effort, BST readministered the culture survey, and these centers showed marked improvement in the noted areas.

"Statistically and anecdotally, the progress is real and the process is working faster than what has been achievable in many organizations," said BST President R. Scott Stricoff. "NASA set a very aggressive implementation schedule and the Agency's achievement-driven mindset has helped to create solid, measurable progress."

Since changes experienced in the first phase were so positive, NASA is deploying specific culture enhancement implementation plans at all NASA centers and Headquarters. Components of these plans include:

 Senior leader executive assessment and coaching - provides feedback on individual managers' impact on culture and leadership effectiveness and identifies behaviors that support culture change.

See BST on page 6

MARSHALL STAR April 14, 2005

DART ready for launch

From Kennedy Space Center release

NaSa's Demonstration of Autonomous Rendezvous Technology (DART) spacecraft is scheduled to launch from an Orbital Sciences Pegasus XL vehicle Friday during a seven minute launch window which extends from 12:21:49-12:28:49 a.m. CDT.

The drop of the Pegasus from the L-1011 carrier aircraft is targeted to occur within the launch window at 12:25 a.m. CDT at a location over the Pacific Ocean approximately 100 miles offshore from Vandenberg Air Force Base, Calif. The DART spacecraft is about 6 feet long and 3 feet in diameter, weighing approximately 800 pounds with fuel. It will be placed into a 472-mile-high circular polar orbit at an inclination of 97.7 degrees.

The DART Project is managed by the Marshall Center, and is the first demonstration program selected by NASA's Exploration Systems Mission Directorate to develop technologies for tomorrow's exploration of the Solar System.

DART will demonstrate key technologies required for spacecraft to rendezvous with other craft, such as satellites, without human intervention. DART will combine key autonomous technologies to actually rendezvous with a target satellite during the mission.

DART's video guidance system, the onboard Advanced Video Guidance Sensor (AVGS), is an advanced version of the Video Guidance Sensor developed by the Marshall Center for NASA's Automated Rendezvous and Capture Project, which demonstrated these automated capabilities in the mid-1990s -- including two successful flight tests on board the Space Shuttle. The next-generation AVGS incorporates advanced optics and electronics and allows DART to communicate with and track its target, the MUBLCOM satellite, to within a range of 5 to 250-plus meters.

Kennedy Space Center is responsible for countdown and launch management; Marshall is responsible for the overall DART mission management and associated technology development; and Orbital Sciences Corp. is responsible for providing the Pegasus launch service and for building the DART satellite.

Marshall Center Earth Day 2005: 'Sustain, You Have the Ability'



Jean Snowden holds a poster of the award-winning Earth Day 2005 logo she designed.

Marshall Center team members are invited to participate in the Center's 2005 Earth Day activities, April 19 in Bldg. 4316. This year's event specifically emphasizes sustaining the environment with the theme, "Sustain, You Have The Ability."

Activities include an Earth Day ceremony, free food, a vendor fair, tree seedling giveaways, and presentation of winners from the logo and photo contests.

A free sustainability class taught by Dr. Brian Nattrass and Mary Altomare will follow the ceremony. All class attendants will earn two hours of continuing education credit to count towards a professional engineer's

certification.

All activities will be held inside or outside Bldg. 4316.

For more information, go to http://eemo.msfc.nasa.gov/environmental/eday/index.asp

Schedule of Events

9:30-10:00 a.m. Earth Day Fair

10:00-10:30 a.m. Earth Day Ceremony

Speakers:

David King - Marshall Center Director

Jim Carter - Director of Center Operations

Dr. Brian Nattrass and Mary Altomare -- Managing Partners of Sustainability Partners Inc.

10:30-10:35 a.m. Awards Presentation

10:35-10:45 a.m. Tree planting and dedication

10:45 a.m. – noon Earth Day Fair Free hot dogs provided

noon-2 p.m. Sustainability Workshop

April 14, 2005 MARSHALL STAR

Local team wins high school division in Moonbuggy Race

By Jack Robertson



Photo by David Higginbotham/ Marshall Center

The Madison County Career Academy team overtakes an obstacle to win first place in the high school division of the Great Moonbuggy Race.

A team from Huntsville captured victory in the high school division of NASA's 12th annual "Great Moonbuggy Race" in Huntsville Friday. In a close fought race, Madison County Career Academy team number one came away with victory by a margin of a mere 34 seconds. They were tied with the second place team for the majority of the day, but in the second heat showed they deserved to win by posting one of the fastest times ever recorded by a high school team.

The Huntsville team topped 44 other teams representing high schools from 14 states with a winning time of 4 minutes, 8 seconds. Vehicles powered by two-team members -- one male and one female -- raced one at a time over a half-mile obstacle course of simulated moonscape terrain.

Two other Huntsville high school teams also competed in the event -- the Huntsville Center for Technology and the New Century Technology High School.

In addition to the first-place honor, the Madison County Career Academy team earned a weekend trip to Space Camp at the U.S. Space & Rocket Center in Huntsville and a trophy-replica of the original lunar roving vehicle.

Two teams from Lafayette County C-1 High School of Higgins-ville, Mo., placed second and third with a second place time of 4 minutes 42 seconds, and third place time of 5 minutes 25 seconds. Both teams received plaques, and all three winning teams received medallions and duffel bags bearing the Great Moonbuggy Race logo.

The Lafayette County C-1 High School team two, Higginsville, Mo., was awarded "Most Unique Buggy" for its lunar dust abatement system and the award for best moonbuggy design. A special "pits award" for ingenuity and persistence in overcoming problems was won by the team from IPS Career & Technology Center, Indianapolis, Ind.

The event is inspired by the actual lunar roving vehicle project, which was successfully completed by the Marshall Center during the 1960s and 1970s. At the time, NASA engineers had the challenge to design and build a compact, light, flexible and durable vehicle that would carry astronauts on the Moon's surface during the Apollo missions.

The Moonbuggy Race is the culmination of a competition that challenges students to design and build a human-powered vehicle. The competition also teaches students how to deal with real-world engineering problems.

The writer, an ASRI employee, supports the Public Affairs Office.



Photo by Emmett Given/ Marshall Center

The Lafayette County C-1 team brings home second place and one of two trophies for the Higginsville, Mo., high school.



Photo by Doug Stoffer/ Marshall Center

A second team from Lafayette County C-1 High School snags the third place win.

4 MARSHALL STAR April 14, 2005

Utah team wins first in college Moonbuggy Race

By Jack Robertson

The team from Utah State University in Logan, Utah, captured victory in the college division of NASA's 12th annual "Great Moonbuggy Race" in Huntsville Saturday. A super-light weight aluminum design allowed the Aggie team to pedal to victory in just its second year of competition.

Utah State topped 28 other college and university teams from 14 states, Germany and Puerto Rico with a winning time of 3 minutes and 59 seconds. Vehicles powered by two-team members -- one male and one female -- raced one at a time over a half-mile obstacle course of simulated moonscape terrain at Huntsville's U.S. Space & Rocket Center.

In addition to the first place honor, the Utah State team earned a cash award and a trophy-replica of the original lunar roving vehicle.

Pittsburg State University team two from Pittsburg, Kan., finished second with a time of 4 minutes 42 seconds, while University of Evansville team one, Evansville, Ind., placed third with a time of 4 minutes 50 seconds. Those teams received plaques, and all three winning teams received medallions and duffel bags bearing the Great Moonbuggy Race logo.

The award for Best Engineering Design went to the team from University of Vermont, Burlington, Vt. Team two from Southern Illinois University, Carbondale, Ill., was honored with a special "pits award" for ingenuity and persistence in overcoming problems. Plus, a special "Crash and Burn" award, given for handling adversity, went to Indiana University-Purdue University Indianapolis in Indianapolis, Ind., because their buggy finished the race in three separate pieces.



Photo by Tony Triolo/ Marshall Center

A Utah State University team from Logan, Utah pushes past a replica lander in a moon crater on its way to victory in the college division of the Great Moonbuggy Race.

Other Alabama college teams participating were: Alabama A&M University in Huntsville; University of Alabama in Birmingham; and University of South Alabama in Mobile.

Sponsors of the event include the Marshall Center, U.S. Space & Rocket Center, American Institute of Aeronautics and Astronautics Alabama-Mississippi Section, ATK Thiokol, Jacobs Sverdrup, Morgan Research, Science Application International Corporation, the Tennessee Valley Chapter of the System Safety Society), United Space Alliance and television station WHNT, all of Huntsville.

The writer, an ASRI employee, supports the Public Affairs Office.



Photo by Tony Triolo/ Marshall Center

Pittsburg State University Team #2 from Pittsburg, Kan. rolls through the course to second place.



Photo by Tony Triolo/ Marshall Center

University of Evansville, Ind. team members peddle over an obstacle to place third.

April 14, 2005 MARSHALL STAR

BST-

Continued from page 2

- Supervisor assessments multi-person feedback provided to all managers that provides information on individual effectiveness in focused areas of importance.
- Behavioral observations and feedback

 provides ongoing feedback on critical
 behaviors, including reinforcements
 for desired behaviors and guidance for
 missed opportunities. It also identifies barriers and engages people in the
 effort.
- Team effectiveness training skills training that helps managers perfect skills such as offering feedback, eliciting trust, and being an influential leader.

Marshall recently began its culture assessment by initiating a 360-degree feedback process for all of its managers. A 360-degree assessment provides feedback from other leaders, peers, and employees on an individual's leadership performance and behaviors. Marshall's managers will go through the assessment in groups of 40 to 45 managers at a time, with all five groups expected to be complete by Sept. 30.

Once training is complete, managers will be evaluated on critical leadership behaviors such as communication, consideration for individuals, management credibility, and decision-making abilities. Then, BST will re-administer the Safety Climate and Culture Survey in November to determine if measurable progress has been made.

"In order to change the Center's culture, you must change leadership behaviors," said Tereasa Washington, director of the Office of Human Capital. "Through this BST process, we should identify those positive aspects of our culture and seek to enhance those areas, while being honest in working to correct the kind of behaviors that are not consistent to the culture we want."

The April 21 meeting is mandatory for all Marshall managers and supervisors. All

employees interested in the initiative are welcome to attend. The session will be broadcast live on Marshall Television, and the presentation charts will be posted on the "Inside Marshall" Web site following the meeting.

Copies of the initial and interim BST reports can be obtained at the following Web sites:

http://www.nasa.gov/pdf/57382main_culture_web.pdf

http://www.nasa.gov/pdf/108679main_ BST_culture_Feb05.pdf

For additional information on the Agency's culture enhancement activities, contact Susan Cloud in the Office of Human Capital.

Discovery

Continued from page 1

the rest of Discovery's seven-person crew will test new hardware and techniques to improve Shuttle safety, as well as deliver supplies to the International Space Station.

"Having Discovery on the pad puts us one step closer to resuming the Space Shuttle's important mission of supplying and assembling the International Space Station," said Michael Kostelnik, NASA deputy associate administrator for International Space Station and Space Shuttle Programs.

Discovery's journey to the launch pad from the Vehicle Assembly Building (VAB) was a slow and careful one. The fully assembled Space Shuttle Vehicle "stack" that includes the Orbiter, the External Tank and the twin Solid Rocket Boosters, was mounted on the Mobile Launcher Platform. The whole assembly was carried to the launch pad on a vehicle known as a crawler transporter. The crawler's maximum speed during the four-mile journey was less than one mile per hour.

Discovery's rollout was not without its challenges. Shortly before it moved out of the VAB, when Discovery and its propul-

sion elements were thoroughly inspected, engineers spotted a tiny, hairline crack in the External Tank's insulating foam. After reviewing the data, engineers determined the crack, on the opposite side of the tank from the Orbiter, was not in a location where it could become hazardous. The "go" was then given for roll.

"We plan to reassess the area during and after a tanking test, but based on our preliminary analysis, we don't expect to have to repair the crack," said Sandy Coleman, External Tank Project manager at the Marshall Center.

Several hours later, when Discovery neared the pad, the mechanism that keeps the Shuttle level as it moves up a ramp gave conflicting readings. The process was stopped, the issues addressed, and the Shuttle was moved securely onto the pad.

Now at the launch pad, the Space Shuttle will undergo final connections for launch, and a pressurized cargo container will be installed. The special "tanking test" on April 14 will check out Space Shuttle hardware associated with filling the External Tank with its cryogenic propellants. The test also

will condition the main propulsion system.

"This milestone signifies an outstanding effort of thousands of people throughout the country who came together as a team to ensure a safe Return to Flight," said Bill Parsons, Space Shuttle program manager.

"I have tremendous confidence in their work," he added.

In all, Discovery underwent 41 major modifications in response to the Columbia accident, including work to address the recommendations of the Columbia Accident Investigation Board. These include adding the new Orbiter Boom Sensor System; equipping the Orbiter with cameras and laser systems to inspect the Shuttle's Thermal Protection System, or heat shield, while in space; installing sensors in the leading edge of the Shuttle's wings, a new safety measure that monitors the Orbiter's wings for debris impacts; and adding a new digital camera to view the External Tank during launch. The External Tank will fly with several modifications, including two new forward bipod heaters at the forward attach fittings that connect the tank to the Orbiter.

6 MARSHALL STAR April 14, 2005

Announcements

Daily video feed begins for Return to Flight efforts

NASA TV is now running a special daily video feed "STS-114 Return to Flight Gallery," for the Space Shuttle Return to Flight mission. Schedule permitting, it airs daily from noon to 2 p.m. CDT. The Return to Flight Gallery will include a rotation of video items, including full-length interviews with each of the Space Shuttle Discovery crew members, replays of mission coverage, news briefings, b-roll and soundbites. The mission is the first of two test flights to verify new inspection and repair techniques, and to deliver supplies to the International Space Station. Discovery has a launch window from May 15 to June 3.

Shuttle Buddies to meet April 25

The Shuttle Buddies will meet at 9 a.m. April 25 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757.

Local Engineers Without Borders chapter proposed

Anyone interested in starting a Huntsville-Madison County chapter of Engineers Without Borders should contact Stephen Clanton at 544-5643. Engineers Without Borders is a non-profit, humanitarian organization established to partner with developing communities to improve the quality of life of its residents.

Register children for Take Our Children to Work Day

The annual Take Our Children to Work Day is April 28. The event is designed to introduce and expose children to their parent's workplace and environment. For an activities schedule and to register, go to http://eo.msfc.nasa.gov or see "Inside Marshall."

Astronomy Day is Saturday

The Von Braun Astronomical Society is hosting Astronomy Day, Saturday from noon to 10 p.m., at the Von Braun Planetarium and Observatory in Monte Sano State Park. Daytime and evening activities are planned, including planetarium shows, movies and skywatching. For more information, go to http://www.vbas.org

PMI monthly meeting is Tuesday

The Project Management Institute will meet at 11:30 a.m. Tuesday at Landry's Seafood Restaurant in Huntsville. The luncheon speaker will be Dr. Jay Billings of Defense Systems Management Corporation. He will speak on data configuration management. This will be a joint meeting with the IEEE Engineering Management Society. Cost is \$20. Register by April 15 at programs@NorthAlabamaPMI.org or prepay at www.NorthAlabamaPMI.org.

NASA Transformation White Paper on NASA Web site

The "NASA Transformation White Paper" was created to address guestions and communicate the linkage and alignment of the various agency transformation efforts within the framework of three overarching transformation goals. The paper was developed in response to comments heard from NASA team members during various forums. The NASA Transformation White Paper and supporting charts are available on the Inside NASA Web site at http:// www.insidenasa.nasa.gov/nasa nas/ ops/NASA transformation/NASA trans wp.html

Applications being accepted for Planetary Summer School

Applications are due June 3 for NASA's 17th Annual Planetary Science Summer School, which runs July 25-29 and Aug. 1-5, at the Jet Propulsion Laboratory, Pasadena, Calif. Science and engineering postdoctoral and graduate students with a strong interest in careers in planetary exploration are encouraged to apply. Students will gain a clearer understanding of the relationships among mission design, cost, and schedule, and the tradeoffs necessary to stay within cost and schedule while acquiring highquality science. Partial financial support is available. For application and other information, go to http:// www2.jpl.nasa.gov/pscischool/.

April 7, 2005 MARSHALL STAR 7

Classified Ads

Miscellaneous

Exercise equipment, \$100; sofa/loveseat, \$200; TV stand, \$20; chest, \$25. 534-0939

GE built-in double ovens, electric, white, selfcleaning, digital controllers, timers, Model #JKP45W0V1WW, \$500. 214-0110

Gift card for Radio Shack, value, \$118. 461-8369

Unfinished wooden table legs, various woods turned, Oak tambour legs, 4 for \$12. 256-335-5896

Werner aluminum extension ladder, 20', \$50; Proform 545E Elliptical \$80; baby crib mattress, \$20. 655-6293

Kenmore heavy-duty washer/dryer, white, \$225; Oak end tables, single drawer, Queen Anne legs, \$150/ both. 722-9274

Six cemetery plots, side by side, Crestview Cemetery, Guntersville, AL. 256-728-4942

Benelli M1 Super 90 Practical 12 gauge shotgun with accessories, \$1,200. 256-828-8630

Baseball bat, Easton Stealth Drop-9, brand new warranty replacement bat, \$200. 881-3527

Two Alan Jackson concert tickets, April 30, 7:30 p.m., Birmingham, Section D, Row NN, \$148.20. 931-636-2726

CRT monitor, Viewsonic A75s, 17", \$100. 355-6648 after 5 p.m.

Tailgate for Dodge p/u 94-02 w/slatted airfoils, in box, \$70. 256-885-1790

Murray 12HP 38" lawn mower, double bagger, lights, new battery, \$300. 931-993-7768

Wedding dress/veil, ivory, size 8, \$100; computer desk, \$125; kid's new motorized scooter, \$200. 776-9165

Sears Kenmore washer & dryer, white, dryer recently overhauled, \$200 for pair. 325-5646

Chain link fence, 260', 10' gates, you take down or help take down, \$500. 232-1487

Remington 700 BDL 30-06, \$375. 729-1983 after 4 n.m.

Welder weight bench and weights, \$85. 922-9311 Dinette table and 6 chairs, , \$150. 256-518-9017 White leather couch, \$150. 316-2902

Pennsylvania House video cabinet, Cherry, up to 30" tv, vcr/dvd, \$750. 931-427-2059

Washer and dryer, \$50. 828-2184

Camper shell for short S-10, \$125; Sunn Model-T guitar amp, \$500; Bach Stardivarius trumpet, \$1,200. 851-8085

Marquis, ½ carat w/matching .33 carat wrap, 14K gold, size 7, \$410 firm. 828-4334

Hanging and water-filled punching bags, \$20 each. 494-9408

SofTub hot tub, 6' diameter, self-sustaining, 4 jets, one handheld, all accessories, \$2,000. 509-3392

Yamaha G245S classical guitar, hard case, \$300. 536-7466

Antique Oak table, Mission style, 48" round, 8" leaf, 6 chairs, \$1,100. 656-9009

Vehicles

1999 Bayliner 2855 cabin cruiser, 7.4L, B-III, less than 100 hrs., \$44,900. 881-3527

1974 Glassmate Bass boat, 85hp Evinrude w/new ignition parts & impeller, drive on trailer, \$1,200. 683-3745

1998 Plymouth Grand Voyager, green, 100k miles, \$5,000. 651-2429

2001 Tahoe LT, 4wd, 3rd row, leather, towing, climate control, 68k miles, \$19,700. 256-541-2435

1998 BMW 740IL, hunter green, tan leather interior, 102.3k miles, new tires, \$16,000. 327-3358

2000 Lincoln Navigator, green/tan, 4wd, sunroof, new tires, 108k miles, \$14,000 firm. 882-2973

1979 Mercedez-Benz 450SL roadster, \$7,500 firm. 922-9294

2003 Nissan Pathfinder, v6, 2wd, automatic, 4-door, 23k miles, leather, cd, tow, silver, \$23,500. 256-880-3337

1994 Jon Boat, 16', 25hp motor, trolling motor, Fishfinder 100, cover, new tires & battery, \$2,900. 340-0422 1989 Jayco Designer Series motorhome, 26' Class C, 460CID engine, 36k miles, \$16,500. 256-503-8040

2004 Toyota 4Runner SR5, v6, gray, 23mpg, 46k miles. 256-426-5919

1994 Ford Explorer Sport, automatic, 2wd, 116k miles, towing pkg., all-power, cd, \$2,385. 652-1665

1996 Chevy S-10, 4-cyl., 5-speed, green, \$2,200. 256-753-0020

2001 Yamaha Raptor 660r, electric w/reverse, Yoshimura exhaust, aftermarket parts, new tires, brakes, \$3,750. 256-931-4684

1987 Dodge D100 truck, one-owner, 139k miles, maintenance records available, \$2,500. 895-9520/Philip

2005 Nissan Frontier extended cab, 4k miles, loaded, 6-year/70k mile warranty, \$21,000. 837-1774

2002 Ford Explorer, Eddie Bauer, extended warranty, 55k miles, all options except 4wd. 232-7126

1980 Chevy S10 pickup, rebuilt engine, good tires, used as work truck, \$1,500. 837-0559

Lowe Jon boat, 1448M, 15hp Johnson, trailer, \$2,300. 256-468-1839

2001 Dodge Dakota, 88k miles, 4-door, SLT, 4x4, 4.7L/ v8, auto, red/gray leather, \$14,900. 256-318-3089

1998 Volvo S-90, dark green, tan leather interior, 4-door, one-owner, 34k miles. 931-433-1866

Wanted

Toddler car seat (20-30 lbs.), clean & relatively new. 325-8002

Car pool from Section, Dutton or Scottsboro, can adjust time to leave, help drive or pay. 256-228-6353

Pool table and air hockey table. 508-0509

Carpool, Albertville-Guntersville area, 7 a.m.-3:30 p.m. tour. 256-659-6164 after 5 p.m.

Slow pitch senior softball team for men over 55. Call Ray Beverly/859-7419

Youth baseball bat approved for Dixie Youth, 28" long, 16 oz., (-12 drop). 351-1754

MARSHALL STAR

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